

Global Multispectral 3D Plant Scanner Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Multispectral 3D Plant Scanner market size is expected to reach \$ 244 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

A multispectral 3D plant scanner is an advanced agricultural sensing device that integrates three-dimensional geometric information acquisition with multi-band spectral imaging technology. It simultaneously acquires high-precision three-dimensional structural models of the tested plant (such as plant height, leaf area, stem morphology, and biomass) and multispectral reflectance characteristics (such as spectral data in specific bands like visible light, near-infrared, and red-edge), enabling non-destructive, high-throughput, and quantitative measurement and analysis of plant phenotypic traits. Demand primarily stems from the core driving force of modern agriculture's transformation towards precision, digitalization, and intelligence. Its upstream supply chain mainly includes core sensor suppliers (such as LiDAR and multispectral camera modules), precision machinery and motion control component manufacturers, and embedded system and software algorithm developers. Downstream, it directly serves plant phenomics research institutions, large breeding companies, precision agriculture service providers, and smart farms, ultimately helping downstream users achieve efficient crop variety selection, accurate diagnosis of growth status, and optimized decision-making in field management by providing high-throughput, multi-dimensional plant growth data. In 2025, the production volume of multispectral 3D plant scanners will be approximately 3,500 units, with an average selling price of approximately US\$40,000 per unit, a gross profit margin of approximately 45%, and a single production line capacity of approximately 100 units per year.

This report studies the global Multispectral 3D Plant Scanner production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Multispectral 3D Plant Scanner and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Multispectral 3D Plant Scanner that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Multispectral 3D Plant Scanner total production and demand, 2021-2032, (Units)

Global Multispectral 3D Plant Scanner total production value, 2021-2032, (USD Million)

Global Multispectral 3D Plant Scanner production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Multispectral 3D Plant Scanner consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Multispectral 3D Plant Scanner domestic production, consumption, key domestic manufacturers and share

Global Multispectral 3D Plant Scanner production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Multispectral 3D Plant Scanner production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Multispectral 3D Plant Scanner production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Multispectral 3D Plant Scanner market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Phenospex B.V. (Private, Heerlen Netherlands), WIWAM (Private, Sint-Truiden Belgium), Lemnatec GmbH (Subsidiary of BASF, Wuppertal Germany), Qubit Systems (Private, Kingston Canada), NPEC (Wageningen The Netherlands), Aptella Automation + Positioning Tech (Private,

Melbourne Australia), Photon Systems Instruments spol. s r.o. (Private, Brno Czech Republic), CID Bio-Science Inc. (Private, Washington USA), Winroot (Beijing) Science & Tech Co., Ltd. (Private, Beijing China), Beijing Eco-mind Technology Co., Ltd. (Private, Beijing China), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Multispectral 3D Plant Scanner market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Multispectral 3D Plant Scanner Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Multispectral 3D Plant Scanner Market, Segmentation by Type:

LiDAR-based

Structured Light

Global Multispectral 3D Plant Scanner Market, Segmentation by Platform Carrier:

Stationary

Mobile

Global Multispectral 3D Plant Scanner Market, Segmentation by Application:

Research Institution

Breeding Company

Farm

Other

Companies Profiled:

Phenospex B.V. (Private, Heerlen Netherlands)

WIWAM (Private, Sint-Truiden Belgium)

Lemnatec GmbH (Subsidiary of BASF, Wuppertal Germany)

Qubit Systems (Private, Kingston Canada)

NPEC (Wageningen The Netherlands)

Aptella Automation + Positioning Tech (Private, Melbourne Australia)

Photon Systems Instruments spol. s r.o. (Private, Brno Czech Republic)

CID Bio-Science Inc. (Private, Washington USA)

Winroot (Beijing) Science & Tech Co., Ltd. (Private, Beijing China)

Beijing Eco-mind Technology Co., Ltd. (Private, Beijing China)

Key Questions Answered:

1. How big is the global Multispectral 3D Plant Scanner market?
2. What is the demand of the global Multispectral 3D Plant Scanner market?
3. What is the year over year growth of the global Multispectral 3D Plant Scanner market?
4. What is the production and production value of the global Multispectral 3D Plant Scanner market?
5. Who are the key producers in the global Multispectral 3D Plant Scanner market?
6. What are the growth factors driving the market demand?

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